

Appendix to Chapter 7: West African languages and creoles worldwide

I. The NEXUS file used for input to SplitsTree for building the network presented in Fig. 7.2

#nexus

```
BEGIN Taxa;  
DIMENSIONS ntax=36;  
TAXLABELS  
Sakn  
Sbam  
Sdgb  
Sdan  
Sdef  
Sdio  
Sdoy  
Sefi  
Sega  
Segn  
Sewe  
Sewo  
Sfon  
Sfua  
Sga  
Sgrb  
Sigb  
Sijo  
Sjms  
Skbs  
Skis  
Skon  
Skfe  
Smbm  
Smoo  
Smpo  
Smum  
Snup  
Sobo  
Ssup  
Stne  
Sumb  
Svai  
Swlf  
Syor  
Stms
```

```

;
END; [Taxa]

BEGIN Characters;
DIMENSIONS nchar=30;
FORMAT
datatype=STANDARD
missing=?
gap=-
symbols="123456789"
labels=no
transpose=no
interleave=yes
;
MATRIX
111111116316212141112412215131
111211112316241142211116241131
1213115323???4212421211223??31
31111?117516241112211112215122
1112??322313?4??14?111113211??
121112531552222244212222211212
2112?3??25?622?143?12412211231
1211121193362411242122222111?1
121???5313???1?115212112212???
321111339316242143212222211112
111112118316322244212112211231
11111?531216242121112222211111
214111317316?42115?12422211111
2211??532512222212112222211311
11121??123?6?1?144?12111211131
111?1333231224?12221211221?111
121111116316241??2212222211131
111111322333312222211111125111
211111116336241114111112271111
221113531336222212?122242??121
121112531336342124212222211212
1211125313322421342122222112?2
21131133231234???22124122112?1
1111???173?6?2???2?122222111?1
31111?3323?63421?2?124142?3131
121113531356221121232222212122
121???537??624???3?1223221?1??
3111???183?624?145212222211131
121111119336242141212222211111
111111532312242124211111241131
111111531316242214212222211131
111143531336122121112523211222
111211117316441114?11112241131

```

```
121211116316222215112222111111
311141117316242245212222211111
211111?1833624?1?221111221112?
;
END; [Characters]
```

II. The NEXUS file used for input to SplitsTree for building the network presented in Fig. 7.3

```
#nexus
```

```
BEGIN Taxa;
DIMENSIONS ntax=70;
TAXLABELS
cANGp
cANNp
cBERd
cGUIp
cGULe
cGUYf
cHAIf
cJAMe
cKABp
cKRie
cLOUf
cMARf
cMORf
cNEGd
cNIGe
cPALs
cPAPs
cPICE
cPRIp
cREUf
cSANO
cSARe
cVINE
Sakn
Sbam
Sblu
Sdan
Sdef
Sdgb
Sdio
Sdoy
Sefi
Sega
Segn
```

Sewe
Sewo
Sfon
Sfua
Sga
Sgrb
Sigb
Sijo
Sjms
Skbs
Skfe
Skik
Skis
Skon
Smbm
Smoo
Smpo
Smua
Smum
Sndi
Sngo
Snup
Sobo
Ssen
Sshn
Ssup
Sswa
Stne
Sumb
Svai
Swlf
Syao
Syor
Szul
Stms
Snyf

;
END; [Taxa]

BEGIN Characters;
DIMENSIONS nchar=30;
FORMAT
datatype=STANDARD
missing=?
gap=-
symbols="123456789"
labels=no

```
transpose=no
interleave=yes
;
MATRIX
111113117336242115212222111122
11111?227333221111212222111112
221211112336242112212411111121
121211112316242115212221121111
221321??7313241212212231111121
3112111123362421151122?111111?
311213112336221215212222111121
22111132633321?14221211111111
31121111933624111521222111112?
211221117316241225212215111112
311311227316241115212221111111
311311119316221115212222111121
211211117336141125212215111131
211311119316241245212211111122
221111117336341115212211111121
221312117336221215212121111121
321212112336341112212221111411
221221117336242215212211111121
211111117336241115212222111121
311211117332241125212216111132
111131118???24?1452122222?112?
111221117336242115212235111112
211221322313241215212211111121
111111116316212141112412215131
111211112316241142211116241131
121112531336142134212222211222
31111?117516241112211112215122
1112???322313?4??14?111113211??
1213115323???4212421211223??31
121112531552222244212222211212
2112?3??25?622?143?12412211231
1211121193362411242122222111?1
121???5313???1?115212112212???
321111339316242143212222211112
111112118316322244212112211231
11111?531216242121112222211111
214111317316?42115?12422211111
2211??532512222212112222211311
11121??123?6?1?144?12111211131
111?1333231224?12221211221?111
121111116316241??2212222211131
111111322333312222211111125111
211111116336241114111112271111
221113531336222212?122242??121
```

```

211311133231234???22124122112?1
121112531336342124212222211212
121111538316242223213222211122
1211125313322421342122222112?2
1111???173?6?2???2?122222111?1
31111?3323?63421?2?124142?3131
121113531356221121232222212122
111212531336242111112226211221
121???537??624???3?1223221?1??
1111112211162421441122222??131
121112531336242124212222211211
3111???183?624?145212222211131
121111119336242141212222211111
121?22531332222121212212?1?222
121112531331212221212222211232
111111532312242124211111241131
121112531332222211212222211232
111111531316242214212222211131
111143531336122121112523211222
111211117316441114?11112241131
121211116316222215112222111111
121112111336222121232222211221
311141117316242245212222211111
121212531332222121212226211232
211111?1833624?1?221111221112?
1211?3531332???1242122?1?142?1
;
END; [Characters]

```

III. The NEXUS file used for input to SplitsTree for building the network presented in Fig. 7.4

```

#nexus

BEGIN Taxa;
DIMENSIONS ntax=92;
TAXLABELS
cAMBm
cANGp
cANNp
cBATp
cTUGp
cBERd
cCHAs
cCHIo
cGUIp
cGULe
cGUYf

```

cHAIf
cHAWe
cHIRO
cJAMe
cJUBa
cKABp
cKARo
cKINa
cKORp
cKRie
cROPe
cLOUf
cMARf
cMORf
cNAGo
cNEGd
cNHEo
cNIGe
cPALs
cPAKp
cPAPs
cPICE
cPISp
cPRIp
cREUf
cSANO
cSARe
cSLPp
cTAYf
cTOKe
cUNSg
cVINE
cYILj
cZAMs
Sakn
Sbam
Sblu
Sdan
Sdef
Sdgb
Sdio
Sdoy
Sefi
Sega
Segn
Sewe
Sewo
Sfon

```
Sfua
Sga
Sgrb
Sigb
Sijo
Sjms
Skbs
Skfe
Skik
Skis
Skon
Smbm
Smoo
Smpo
Smua
Smum
Sndi
Sngo
Snup
Sobo
Ssen
Sshn
Ssup
Sswa
Stne
Sumb
Svai
Swlf
Syao
Syor
Szul
Stms
Snyf
;
END; [Taxa]
```

```
BEGIN Characters;
DIMENSIONS nchar=30;
FORMAT
datatype=STANDARD
missing=?
gap=-
symbols="123456789"
labels=no
transpose=no
interleave=yes
;
MATRIX
```


121111119316242245212236311112
111113117336242115212222111122
11111?227333221111212222111112
221111115333241114112121111121
22111111551624211521221111?122
221211112336242112212411111121
12111?11733624111122221111121
321211119316241245212211111121
121211112316242115212221121111
221321??7313241212212231111121
3112111123362421151122?111111?
311213112336221215212222111121
221312322333241112212211111121
?21111116516?41245211?1?2?511?
22111132633321?14221211111111
3212111123162412152122221??121
31121111933624111521222111112?
211211119336212115212211111122
221211116316241215212221211132
3111?1115333?21114213211121122
211221117316241225212215111112
123121119516241212212211111112
311311227316241115212221111111
311311119316221115212222111121
211211117336141125212215111131
2211421123322412122111161??12?
211311119316241245212211111122
3111??117316?4?114212211111121
221111117336341115212211111121
221312117336221215212121111121
111111225316242215212111111121
321212112336341112212221111411
221221117336242215212211111121
???21111911624-24521221?111112
211111117336241115212222111121
311211117332241125212216111132
111131118???24?1452122222?112?
111221117336242115212235111112
321????????241??5212221111??
111311117316241215212222111121
221311117516241215212226161111
221312117533241212212221111122
211221322313241215212211111121
1213111191162422122131111?1112
321211226536241115212221111111
111111116316212141112412215131
111211112316241142211116241131
121112531336142134212222211222

31111?117516241112211112215122
1112??322313?4??14?111113211??
1213115323???4212421211223??31
1211125315522224212222211212
2112?3??25?622?143?12412211231
1211121193362411242122222111?1
121???5313???1?115212112212???
321111339316242143212222211112
11111211831632224212112211231
11111?531216242121112222211111
214111317316?42115?12422211111
2211??532512222212112222211311
11121??123?6?1?144?12111211131
111?1333231224?12221211221?111
121111116316241??2212222211131
111111322333312222211111125111
211111116336241114111112271111
221113531336222212?122242??121
21131133231234???22124122112?1
121112531336342124212222211212
121111538316242223213222211122
1211125313322421342122222112?2
1111???173?6?2???2?122222111?1
31111?3323?63421?2?124142?3131
121113531356221121232222212122
111212531336242111112226211221
121???537??624???3?1223221?1??
1111112211162421441122222??131
121112531336242124212222211211
3111???183?624?145212222211131
121111119336242141212222211111
121?22531332222121212212?1?222
121112531331212221212222211232
111111532312242124211111241131
121112531332222211212222211232
111111531316242214212222211131
111143531336122121112523211222
111211117316441114?11112241131
121211116316222215112222111111
121112111336222121232222211221
311141117316242245212222211111
121212531332222121212226211232
211111?1833624?1?221111221112?
1211?3531332???1242122?1?142?1

;
END; [Characters]

IV. The NEXUS file used for input to SplitsTree for building the network presented in Fig. 7.5

#nexus

```
BEGIN Taxa;  
DIMENSIONS ntax=57;  
TAXLABELS  
cAMBm  
cANGp  
cANNp  
cBATp  
cTUGp  
cBERd  
cCHAs  
cCHIo  
cGUIp  
cGULe  
cGUYf  
cHAIf  
cHAWe  
cHIRO  
cJAMe  
cJUBa  
cKABp  
cKARo  
cKINa  
cKORp  
cKRie  
cROPe  
cLOUf  
cMARf  
cMORf  
cNAGo  
cNEGd  
cNHEo  
cNIGe  
cPALs  
cPAKp  
cPAPs  
cPICE  
cPISp  
cPRIp  
cREUf  
cSANO  
cSARe  
cSLPp  
cTAYf
```

```

cTOKe
cUNSG
cVINE
cYILj
cZAMS
Lapd
Ldut
Leng
Lfre
Lger
Ljap
Lmly
Lmot
Lngb
Lpor
Lspa
Ltup
;
END; [Taxa]

```

```

BEGIN Characters;
DIMENSIONS nchar=30;
FORMAT
datatype=STANDARD
missing=?
gap=-
symbols="123456789"
labels=no
transpose=no
interleave=yes
;
MATRIX

```

```

121111119316242245212236311112
111113117336242115212222111122
11111?227333221111212222111112
221111115333241114112121111121
22111111551624211521221111?122
221211112336242112212411111121
12111?117336241111222221111121
321211119316241245212211111121
121211112316242115212221121111
221321??7313241212212231111121
3112111123362421151122?111111?
311213112336221215212222111121
221312322333241112212211111121
?21111116516?41245211?1?2?511?
22111132633321?14221211111111
3212111123162412152122221??121

```

```
31121111933624111521222111112?  
211211119336212115212211111122  
221211116316241215212221211132  
3111?1115333?21114213211121122  
211221117316241225212215111112  
123121119516241212212211111112  
311311227316241115212221111111  
311311119316221115212222111121  
211211117336141125212215111131  
2211421123322412122111161??12?  
211311119316241245212211111122  
3111??117316?4?114212211111121  
221111117336341115212211111121  
221312117336221215212121111121  
111111225316242215212111111121  
321212112336341112212221111411  
221221117336242215212211111121  
???21111911624-24521221?111112  
211111117336241115212222111121  
311211117332241125212216111132  
111131118???24?1452122222?112?  
111221117336242115212235111112  
321????????241??5212221111???  
111311117316241215212222111121  
221311117516241215212226161111  
221312117533241212212221111122  
211221322313241215212211111121  
1213111191162422122131111?1112  
321211226536241115212221111111  
32131222633122111421221212?122  
221322222333241212213221111122  
221322322323241212212231111122  
311332222333241112212221111122  
221332322333241212213221111122  
321211532312242212211111122131  
1211111152162211?52122??2??122  
321111119516441?4521111121111?  
11111?221616??21441122222??13?  
311332222331241112212221111122  
321332222331241112232221111122  
2111?2119556?422441331122???2?  
;  
END; [Characters]
```

V. The NEXUS file used for input to SplitsTree for building the networks presented in Figs. 7.6 to 7.10

#nexus

```
BEGIN Taxa;  
DIMENSIONS ntax=105;  
TAXLABELS  
cAMBM  
cANGp  
cANNp  
cBATp  
cTUGp  
cBERd  
cCHAs  
cCHIo  
cGUIp  
cGULe  
cGUYf  
cHAIf  
cHAWe  
cHIRO  
cJAMe  
cJUBa  
cKABp  
cKARo  
cKINa  
cKORp  
cKRie  
cROPe  
cLOUf  
cMARf  
cMORf  
cNAGo  
cNEGd  
cNHEo  
cNIGe  
cPALs  
cPAKp  
cPAPs  
cPICE  
cPISp  
cPRIp  
cREUf  
cSANO  
cSARe  
cSLPp  
cTAYf  
cTOKe  
cUNSg  
cVINE  
cYILj
```

cZAMs
Saeg
Lapd
Ldut
Leng
Lfre
Lger
Ljap
Lmly
Lmot
LngbOUT
Lpor
Lspa
Ltup
Sakn
Sbam
Sblu
Sdan
Sdef
Sdgb
Sdio
Sdoy
Sefi
Sega
Segn
Sewe
Sewo
Sfon
Sfua
Sga
Sgrb
Sigb
Sijo
Sjms
Skbs
Skfe
Skik
Skis
Skon
Smbm
Smoo
Smpo
Smua
Smum
Lngb
Sngo
Snup
Sobo

Ssen
Sshn
Ssup
Sswa
Stne
Sumb
Svai
Swlf
Syao
Syor
Szul
Stms
Snyf
;
END; [Taxa]

BEGIN Characters;
DIMENSIONS nchar=30;
FORMAT
datatype=STANDARD
missing=?
gap=-
symbols="123456789"
labels=no
transpose=no
interleave=yes

;
MATRIX
121111119316242245212236311112
111113117336242115212222111122
11111?227333221111212222111112
221111115333241114112121111121
22111111551624211521221111?122
221211112336242112212411111121
12111?117336241111222221111121
321211119316241245212211111121
121211112316242115212221121111
221321??7313241212212231111121
3112111123362421151122?111111?
311213112336221215212222111121
221312322333241112212211111121
?21111116516?41245211?1?2?511?
22111132633321?14221211111111
3212111123162412152122221??121
31121111933624111521222111112?
211211119336212115212211111122
221211116316241215212221211132
3111?1115333?21114213211121122

211221117316241225212215111112
12312111951624121221221111112
31131122731624111521222111111
31131111931622111521222211121
211211117336141125212215111131
2211421123322412122111161??12?
211311119316241245212211111122
3111??117316?4?114212211111121
221111117336341115212211111121
221312117336221215212121111121
111111225316242215212111111121
321212112336341112212221111411
221221117336242215212211111121
???21111911624-24521221?111112
21111111733624111521222211121
311211117332241125212216111132
111131118???24?1452122222?112?
111221117336242115212235111112
321????????241??5212221111???
111311117316241215212222111121
221311117516241215212226161111
221312117533241212212221111122
211221322313241215212211111121
1213111191162422122131111?1112
321211226536241115212221111111
321112226331321114212222311222
32131222633122111421221212?122
221322222333241212213221111122
221322322323241212212231111122
311332222333241112212221111122
221332322333241212213221111122
321211532312242212211111122131
1211111152162211?52122??2??122
321111119516441?4521111121111?
11111?221616??21441122222??13?
311332222331241112212221111122
321332222331241112232221111122
2111?2119556?422441331122???2?
111111116316212141112412215131
111211112316241142211116241131
121112531336142134212222211222
31111?117516241112211112215122
1112??322313?4??14?111113211??
1213115323???4212421211223??31
121112531552222244212222211212
2112?3??25?622?143?12412211231
1211121193362411242122222111?1
121???5313???1?115212112212???

321111339316242143212222211112
111112118316322244212112211231
11111?531216242121112222211111
214111317316?42115?12422211111
2211??532512222212112222211311
11121??123?6?1?144?12111211131
111?1333231224?12221211221?111
121111116316241??2212222211131
111111322333312222211111125111
211111116336241114111112271111
221113531336222212?122242??121
21131133231234???22124122112?1
121112531336342124212222211212
121111538316242223213222211122
1211125313322421342122222112?2
1111???173?6?2???2?122222111?1
31111?3323?63421?2?124142?3131
121113531356221121232222212122
111212531336242111112226211221
121???537??624???3?1223221?1??
1111112211162421441122222??131
121112531336242124212222211211
3111???183?624?145212222211131
121111119336242141212222211111
121?22531332222121212212?1?222
121112531331212221212222211232
111111532312242124211111241131
121112531332222211212222211232
111111531316242214212222211131
111143531336122121112523211222
111211117316441114?11112241131
121211116316222215112222111111
121112111336222121232222211221
311141117316242245212222211111
121212531332222121212226211232
211111?1833624?1?221111221112?
1211?3531332???1242122?1?142?1

;
END; [Characters]